

[and 12 is attached on a separate sheet.

¹
~~6.~~ (Amended) An electricity generating system, comprising:

a body;

a combustor provided in said body;

a turbine made of a plurality of turbine blades secured to a rotor, provided in said body and in fluid communication with said combustor;

a compressor chamber provided in said body and in fluid communication with said combustor;

a plurality of compressor blades secured to said rotor, said compressor blades positioned within a compressor chamber;

an air inlet port in fluid communication with said compressor chamber;

an exit port in fluid communication with said turbine;

a plurality of magnets secured to said rotor; and

a stator made of a magnetically attracted material provided in said body, said stator positioned in close proximity to said plurality of magnets whereby rotation of said rotor causes a change in flux about said stator thereby generating electricity; and

a fuel metering valve in fluid communication with said combustor, wherein said fuel metering valve comprises a proportional solenoid having a plunger having a tip, said plunger adapted to extend along a longitudinal axis, a valve body defining a plunger cavity, an inlet and an outlet, said plunger extending within said plunger cavity, and a flow plate having a hole defined therein, said flow plate secured to said valve body and positioned within said plunger cavity between said inlet and said outlet whereby movement of said plunger in a first longitudinal direction causes said tip to coact with the hole defined in said

R1 flow plate to vary a flow from said inlet to said outlet through said hole defined in said hole plate.

49. (Amended) An electricity generating system, comprising:

a body;

a combustor provided in said body;

a turbine made of a plurality of turbine blades secured to a rotor, provided in said body and in fluid communication with said combustor;

a compressor chamber provided in said body and in fluid communication with said combustor;

a plurality of compressor blades secured to said rotor, said compressor blades positioned within a compressor chamber;

an air inlet port in fluid communication with said compressor chamber;

an exit port in fluid communication with said turbine;

a plurality of magnets secured to said rotor;

A2 a stator made of a magnetically attracted material provided in said body, said stator positioned in close proximity to said plurality of magnets whereby rotation of said rotor causes a change in flux about said stator thereby generating electricity; and

a fuel metering valve fluidly coupled to said combustor, wherein said fuel metering valve comprises a proportional solenoid having a plunger that is adapted to extend along a longitudinal axis, said plunger having a tip, and a valve body defining a plunger cavity, an inlet and an outlet, said plunger extending within said plunger cavity, said tip having a blocking portion and a flow passageway defined therein having an inlet port and an outlet port, wherein said inlet port is in fluid communication with said outlet port whereby movement of said tip in a first longitudinal direction causes said inlet port, outlet port and

blocking member to coact with said inlet and outlet to vary a flow through said valve body from said inlet to said outlet.

5 10. (Amended) An electricity generating system, comprising:

- a body;
- a combustor provided in said body;
- a turbine made of a plurality of turbine blades secured to a rotor, provided in said body and in fluid communication with said combustor;
- a compressor chamber provided in said body and in fluid communication with said combustor;
- a plurality of compressor blades secured to said rotor, said compressor blades positioned within a compressor chamber;
- an air inlet port in fluid communication with said compressor chamber;
- an exit port in fluid communication with said turbine;
- a plurality of magnets secured to said rotor;
- a stator made of a magnetically attracted material provided in said body, said stator positioned in close proximity to said plurality of magnets whereby rotation of said rotor causes a change in flux about said stator thereby generating electricity;
- an annular-shaped bearing rotatably receiving a cylindrical portion of said rotor through an annulus defined in said bearing, said bearing secured to said body, said bearing adapted to support said rotor so that said rotor can rotate about a longitudinal axis;
- and
- a locking arrangement for securing said bearing to said body, said locking arrangement, comprising a lug secured to said bearing and extending in a radial direction away from the annulus, a cylindrical bearing receiving hole defined in the body to receive

Q2
said bearing and a lug receiving recess defined in said body for receiving said lug and prevent said bearing from rotating about the longitudinal axis relative to said body, and a locking member coacting with said bearing for limiting movement of said bearing in a first longitudinal direction relative to said body.

1 12. (Amended) An electricity generating system, comprising:

a body;

a combustor provided in said body;

a turbine made of a plurality of turbine blades secured to a rotor, provided in said body and in fluid communication with said combustor;

a compressor chamber provided in said body and in fluid communication with said combustor;

Q3
a plurality of compressor blades secured to said rotor, said compressor blades positioned within a compressor chamber;

an air inlet port in fluid communication with said compressor chamber;

an exit port in fluid communication with said turbine;

a plurality of magnets secured to said rotor;

a stator made of a magnetically attracted material provided in said body, said stator positioned in close proximity to said plurality of magnets whereby rotation of said rotor causes a change in flux about said stator thereby generating electricity;

an annular-shaped bearing rotatably receiving a cylindrical portion of said rotor through an annulus defined in said bearing, said bearing secured to said body, said bearing adapted to support said rotor so that said rotor can rotate about a longitudinal axis; and

a damper positioned between an outer surface of said bearing and said body.

Please add new claims 15-23 as follows:

¹⁰
~~15~~. An electricity generating system, comprising:

- a body;
- a combustor provided in said body;
- a turbine made of a plurality of turbine blades secured to a rotor, provided in said body and in fluid communication with said combustor;
- a compressor chamber provided in said body and in fluid communication with said combustor;
- a plurality of compressor blades secured to said rotor, said compressor blades positioned within a compressor chamber;
- an air inlet port in fluid communication with said compressor chamber;
- an exit port in fluid communication with said turbine;
- a plurality of magnets secured to said rotor;
- a stator made of a magnetically attracted material provided in said body, said stator positioned in close proximity to said plurality of magnets whereby rotation of said rotor causes a change in flux about said stator thereby generating electricity;
- a fuel pump in fluid communication with said annular combustor;
- a bearing for rotatably supporting said rotor;
- a lubricating oil pump in fluid communication with said bearing; and
- an electric motor coupled to said fuel pump and said lubricating oil pump wherein said fuel pump and said lubricating oil pump are driven by said motor.

¹¹
~~16~~. An electricity generating system as claimed in claim ¹⁰~~15~~, wherein said fuel pump and said oil pump are positive displacement pumps.

¹²
~~17.~~ An electricity generating system as claimed in claim ~~16~~¹¹, wherein each of said pumps comprises an inner rotor positioned within a casing, said inner rotor adapted to move about said casing to pump fluid through said casing, each of said inner rotors driven by said electric motor.

¹³
~~18.~~ An electricity generating system as claimed in claim ~~16~~¹¹, wherein each of said positive displacement pumps is of the generator type, wherein each of said inner rotors coacts with an outer rotor positioned between said casing and said inner rotor, and a shaft is coupled to at least one of said inner rotors and said electric motor.

¹⁴
~~19.~~ An electricity generating system as claimed in claim ~~15~~¹⁰, wherein said combustor is an annular combustor.

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¹⁵
~~20.~~ An electricity system as claimed in claim ~~6~~¹, wherein said combustor is an annular combustor.

¹⁶
~~21.~~ An electricity system as claimed in claim ~~9~~⁴, wherein said combustor is an annular combustor.

¹⁷
~~22.~~ An electricity system as claimed in claim ~~10~~⁵, wherein said combustor is an annular combustor.

¹⁸
~~23.~~ An electricity system as claimed in claim ~~12~~⁷, wherein said combustor is an annular combustor.